

| Tissue      | Fraction of total volume <sup>a</sup> |              | Fraction of cell volume <sup>b</sup> |       | Fraction of total lipid |                            |
|-------------|---------------------------------------|--------------|--------------------------------------|-------|-------------------------|----------------------------|
|             | Cells                                 | Interstitium | Water                                | Lipid | Protein                 | Neutral Lipid <sup>c</sup> |
| Adipose     | 0.86                                  | 0.14         | 0.03                                 | 0.92  | 0.06                    | 1                          |
| Bone        | 0.9                                   | 0.1          | 0.26                                 | 0.02  | 0.21                    | 0.85                       |
| Brain       | 1                                     | 0.004        | 0.79                                 | 0.11  | 0.08                    | 0.39                       |
| Gut         | 0.9                                   | 0.096        | 0.78                                 | 0.07  | 0.15                    | 0.69                       |
| Heart       | 0.86                                  | 0.14         | 0.7                                  | 0.11  | 0.19                    | 0.48                       |
| Kidneys     | 0.78                                  | 0.22         | 0.73                                 | 0.06  | 0.21                    | 0.26                       |
| Liver       | 0.82                                  | 0.18         | 0.68                                 | 0.08  | 0.21                    | 0.29                       |
| Lung        | 0.5                                   | 0.5          | 0.74                                 | 0.04  | 0.11                    | 0.51                       |
| Muscle      | 0.88                                  | 0.12         | 0.76                                 | 0.01  | 0.19                    | 0.49                       |
| Skin        | 0.69                                  | 0.31         | 0.47                                 | 0.14  | 0.41                    | 0.9                        |
| Spleen      | 0.79                                  | 0.21         | 0.75                                 | 0.02  | 0.23                    | 0.3                        |
| Testes      | 0.9                                   | 0.1          | 0.78                                 | 0.03  | 0.13                    | 0                          |
| Red blood c | 1-                                    |              | 0.63                                 | 0.01  | 0.33                    | 0.3                        |

a Values taken from (Kawai et al., 1994). Original values given as fraction of total organ volume were rescaled.

b Values taken from (ICRP, 1975). Original values given as fraction of total tissue mass were rescaled.

c Data taken from (Rodgers et al., 2005a).

d Values taken from ([Waddell and Bates, 1969], [Malan et al., 1985], [Wood and Schaefer, 1978], [Schafer et al., 1978]).  
e Data taken from (Gomez et al., 2002).

Fraction of total lipid

| Neutral Phospholipid <sup>c</sup> | Acidic Phospholipid <sup>c</sup> | pH <sup>d</sup> |
|-----------------------------------|----------------------------------|-----------------|
| 0.0022                            | 0.0006                           | 7.1             |
| 0.11                              | 0.04                             | 7               |
| 0.48                              | 0.13                             | 7.1             |
| 0.26                              | 0.05                             | 7               |
| 0.43                              | 0.09                             | 7.1             |
| 0.61                              | 0.13                             | 7.22            |
| 0.59                              | 0.11                             | 7.23            |
| 0.38                              | 0.11                             | 6.6             |
| 0.42                              | 0.09                             | 6.81            |
| 0.08                              | 0.02                             | 7               |
| 0.54                              | 0.15                             | 7               |
| 0.83                              | 0.18                             | 7               |
| 0.59                              | 0.1                              | 7.2             |

re rescaled to tissue volume by subtracting vascular volume.

ed to cellular volume as follows: Water fraction of total tissue reduced by interstitial volume and subsequently all v

nker and Less, 1977], [Harrison and Walker, 1979] and [Civelek et al., 1996]). Mean values were calculated when more than one value was found for the same tissue.

values normalized by cellular fraction.